

SAFETY DATA SHEET

Technovit® 3040 Mounting Medium Kit - Liquid/Powder

Version 2 · issued 24 September 2026

1. IDENTIFICATION**Product Identifiers**

Product Name	Technovit 3040 Mounting Medium Kit - Liquid/Powder
Other Names	Not available.
Product Number(s)	14652, EMS14652
CAS Number	Not available.

Recommended use of the chemical and restriction on use

Laboratory chemicals. a two-component, fast-curing methyl methacrylate-based resin consisting of a powder and liquid. It is used to mount/fix specimens, producing a firm, durable bond and is commonly used in microscopy/materialography.

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2. HAZARDS IDENTIFICATION**Classification of the substance or mixture**

GHS02 Flame

Flammable liquids 2 H225 Highly flammable liquid and vapor.

Substances and mixtures which, in contact with water, emit flammable gases 1 H260 In contact with water releases flammable gases, which may ignite spontaneously

GHS08 Health hazard

Carcinogenicity 2 H351 Suspected of causing cancer.

Specific target organ toxicity (repeated exposure) 2 H373 May cause damage to the blood system and the respiratory tract through prolonged or repeated exposure.

GHS07

Skin irritation 2 H315 Causes skin irritation.

Sensitization - skin 1 H317 May cause an allergic skin reaction.

Specific target organ toxicity (single exposure) 3 H335 May cause respiratory irritation.

Label Elements**Flammable • Harmful / irritant • Health hazard**

Signal Words	Danger
Hazard Statement(s)	Hazard-determining components of labelling: Methyl Methacrylate N,N-dimethyl-p-toluidine Hazard statements Highly flammable liquid and vapour. In contact with water releases flammable gases which may ignite spontaneously. Harmful if swallowed. Causes skin irritation. May cause an allergic skin reaction. Suspected of causing cancer. May cause respiratory irritation. May cause damage to the blood system and the respiratory tract through prolonged or repeated exposure.

Precautionary Statement(s)

Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Keep away from any possible contact with water, because of violent reaction and possible flash fire.
 Handle and store contents under inert gas. Protect from moisture.
 Ground/bond container and receiving equipment.
 Use explosion-proof electrical/ventilating/lighting equipment.
 Use only non-sparking tools.
 Take precautionary measures against static discharge.
 Do not breathe dust/fume/gas/mist/vapours/spray.
 Wash thoroughly after handling.
 Do not eat, drink or smoke when using this product.
 Use only outdoors or in a well-ventilated area.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves/protective clothing/eye protection/face protection.

Primary route(s) of entry

Not available.

Human Health**Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If exposed or concerned: Get medical advice/attention.

Ingestion

Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.

Eyes

May cause eye irritation, including redness, watering, burning/stinging and discomfort.

Skin

If on skin: Brush off loose particles from skin and Immerse in cool water.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

Environment

In case of fire: Use CO₂, sand, extinguishing powder for extinction.

Store in a dry place. Store in a closed container.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	CAS No.	Content (w/w)	Classification
Methyl Methacrylate	80-62-6	80-100%	Mixture
N,N-dimethyl-p-toluidine	99-97-8	1-5%	Mixture

4. FIRST AID MEASURES**Ingestion**

Do not induce vomiting; call for medical help immediately.

Inhalation

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

Skin Contact

Immediately wash with water and soap and rinse thoroughly.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, then continue rinsing. Seek medical attention if irritation persists.

Other Information

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

5. FIREFIGHTING MEASURES**Suitable extinguishing equipment****Fire**

CO, sand, extinguishing powder. Do not use water.

HAZCHEM

For safety reasons unsuitable extinguishing agents: Water with full jet.

Special protective equipment and precautions for fire fighters

Mouth respiratory protective device.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Wear protective equipment. Keep unprotected persons away. Protective Action Criteria for Chemicals · PAC-1: 80-62-6 Methyl Methacrylate 17 ppm · PAC-2: 80-62-6 Methyl Methacrylate 120 ppm · PAC-3: 80-62-6 Methyl Methacrylate 570 ppm
Environmental precautions	Do not allow to enter sewers/surface or ground water.
Methods and materials for containment and clean up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents.

7. HANDLING AND STORAGE

Precautions for safe handling	Ensure good ventilation/exhaustion at the workplace. Open and handle receptacle with care. Prevent formation of aerosols. · Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available.
Conditions for safe storage	Store in a cool location. Keep container tightly sealed. Store in cool, dry conditions in well sealed receptacles.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards				
Material	TWA ppm	TWA mg/m ³	STEL ppm	STEL mg/m ³
Methyl Methacrylate	50ppm		100ppm	410mg/m ³
Engineering controls	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes and skin. Avoid contact with the skin.			
Personal protective equipment				
Eye and face protection	Tightly sealed goggles.			
Skin protection	Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. · Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed			
Body protection	Not available.			
Respiratory protection	In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.			

9. PHYSICAL AND CHEMICAL PROPERTIES

General information	
Appearance	Yellowish fluid

Odour	Characteristic
pH	Mixture is non-polar/aprotic
Vapour Pressure	at 20 °C (68 °F): 47 hPa (35.3 mm Hg)
Density	at 20 °C (68 °F): 0.94 g/cm ³ (7.8443 lbs/gal)
Boiling Point	100 °C (212 °F)
Melting Point	-48 °C (-54.4 °F)
Solubility	at 20 °C (68 °F): 1.6 g/l
Specific Gravity of Density	Not available.
Flash Point	10 °C (50 °F)
Flammable (Explosive) Limits	Lower: 2.1Vol% Upper: 12.5Vol%
Ignition Temperature	430 °C (806 °F)
Formula	Not available.

10. STABILITY AND REACTIVITY

Reactivity	No further relevant information available.
Chemical stability	No decomposition if used according to specifications.
Possibility of hazardous reactions	Contact with water releases flammable gases.
Conditions to avoid	No further relevant information available.
Incompatible materials	No further relevant information available.

11. TOXICOLOGICAL INFORMATION

Acute effects	80-62-6 Methyl Methacrylate Oral LD50 7872mg/kg (rat)
Eye contact	No irritating effect.
Skin contact	Irritant to skin and mucous membranes. Sensitisation possible through skin contact. Sensitization possible through skin contact.
Ingestion	Not available
Inhalation	Not available
Chronic effects	Carcinogenic categories · IARC (International Agency for Research on Cancer): 80-62-6 Methyl Methacrylate 3 99-97-8 N,N-dimethyl-p-toluidine 2B · NTP (National Toxicology Program): None of the ingredients is listed. · OSHA-Ca (Occupational Safety Health Administration): None of the ingredients is listed.
Toxicity and irritation	Toxic Irritant

12. ECOLOGICAL INFORMATION

Ecotoxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
Other adverse effects	Water hazard class 1: slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13. DISPOSAL CONSIDERATIONS

General information

Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

ADG label required
Class 3 Flammable liquid

HAZCHEM

For safety reasons unsuitable extinguishing agents: Water with full jet.

UN Number

UN1247

Proper shipping name

UN proper shipping name
 · DOT: Methyl methacrylate monomer, stabilized
 · ADR: 1247 METHYL METHACRYLATE MONOMER, STABILIZED
 · IMDG, IATA: METHYL METHACRYLATE MONOMER, STABILIZED

Transport hazard class

Class 3 Flammable liquids

Packing group

II

Environmental hazard

Not applicable.

Special precautions for users

Warning: Flammable liquids
 Hazard identification number (Kemler code): 33
 EMS Number: F-E,S-D
 Stowage Category: B
 Stowage code: SW2 Clear of living quarters.

Additional information

Limited quantities (LQ): 1L
 Excepted quantities (EQ): Code: E2
 Maximum net quantity per inner packaging: 30mL
 Maximum net quantity per outer packaging: 500mL
 Transport category: 2
 Tunnel restriction code: D/E

15. REGULATORY INFORMATION

Poisons Schedule Number

80-62-6 Methyl Methacrylate S6, S10

Other Information

Sara
 · Section 355 (extremely hazardous substances): None of the ingredients is listed.
 · Section 313 (Specific toxic chemical listings): 80-62-6 Methyl Methacrylate
 · TSCA (Toxic Substances Control Act): All components have the value ACTIVE.
 · Hazardous Air Pollutants: 80-62-6 Methyl Methacrylate
 Proposition 65
 · Chemicals known to cause cancer: 99-97-8 N,N-dimethyl-p-toluidine
 · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed.
 Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed.
 · Chemicals known to cause developmental toxicity: None of the ingredients is listed.
 Carcinogenic categories
 · EPA (Environmental Protection Agency): 80-62-6 Methyl Methacrylate E, NL
 · TLV (Threshold Limit Value): 80-62-6 Methyl Methacrylate A4
 · NIOSH-Ca (National Institute for Occupational Safety and Health): None of the ingredients is listed.
 A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

SDS preparation date

24 September 2026

Comments

· Abbreviations and acronyms:
ADR: Accord relatif au transport international des marchandises dangereuses par route
(European Agreement Concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable liquids 2: Flammable liquids – Category 2
Substances and mixtures which, in contact with water, emit flammable gases 1:
Substances and mixtures which in contact with water emit
flammable gases – Category 1
Skin irritation 2: Skin corrosion/irritation – Category 2
Sensitization - skin 1: Skin sensitisation – Category 1
Carcinogenicity 2: Carcinogenicity – Category 2
Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single
exposure) – Category 3
Specific target organ toxicity (repeated exposure) 2: Specific target organ toxicity
(repeated exposure) – Category 2

References

Electron Microscopy Science SDS "TECHNOVIT 3040 LIQUID/POWDER". 12/05/2022
<https://www.emsdiasum.com/docs/technical/msds/14652.pdf>

This Safety Data Sheet (SDS) has been prepared in compliance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice February 2016. It is the user's responsibility to determine the suitability of this information for adoption of necessary safety precautions. The information published in this SDS has been compiled from the publications listed in Section 16: to the best of our ability and knowledge these publications are considered accurate. We reserve the right to revise Safety Data Sheets as new information becomes available. Copies may be made for non-profit use.

... End of SDS ...